Mike Jabot

February 23, 2016

STEM + Computing Partnerships (STEM + C) <https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505006>

* Send Date to March 24th, versus.
* Pre-service and in-service teachers who participate in STEM+C projects are expected to enhance their understanding and teaching of STEM and computing content, practices, and skills.
* Curriculum Development
* Strategies will be consistent across the three sites, but will be site specific: Lake Erie, Los Angeles,
* While the instruction strategies will differ from location to location based on the specific community served, there will be a close interaction and sharing of information between the centers creating a GeoSTEM Alliance.
* Three sites will have Project Manager to take care of coordination program.
* Lead here, other two sub-awards
  + Majority will be off campus rate to support questions.
  + Heidi, will this stay the same at other two sites?
* Bringing tested interventions to scale. Geospatial instruments are in place.
* Using Earth-sciences, but it applicable across disciplines that use data: Biology, environmental,
* Please note that a separate Data Management Plan document is also required to be submitted as part of your proposal application.
* Proposals **should address whether the design is premised on special needs [it’s not]** and interests due to educational level, gender, race, ethnicity, economic status, or disability, to what extent data will be disaggregated for multiple characteristics.
  + Urban LA
  + Suburban Philadelphia
  + Rural here
* <http://www.globe.gov/> NASA, NOA, USGS, JPL, Megan Smith White House Chief Technology Officer of the United States.
* <http://hub.mspnet.org/> for pubs.
* 3/1/2016
* What does NSF mean by a Data Management Plan.
  + Investigators are expected to share with other researchers, at no more than incremental cost and within a reasonable time, the primary data, samples, physical collections and other supporting materials created or gathered in the course of work under NSF grants. Grantees are expected to encourage and facilitate such sharing. See [Award & Administration Guide (AAG) Chapter VI.D.4](http://www.nsf.gov/pubs/policydocs/pappguide/nsf15001/aag_6.jsp#VID4).
  + <http://www.nsf.gov/bfa/dias/policy/dmp.jsp>
  + <http://www.nsf.gov/geo/geo-data-policies/index.jsp>
  + [EAR Division Data Sharing Policy](http://www.nsf.gov/geo/ear/2010EAR_data_policy_9_28_10.pdf)
  + [Earth Scope Data and Sample Policies](http://www.nsf.gov/geo/geo-data-policies/ear/es-data-policy.pdf) (Adobe Acrobat)

February 26, 2016

* Date Management Plan
  + Student Outcome = IRB
  + Landsat Data
* All data if free.
  + May be some equipment purchases.
    - Handheld GPS units . . .
* <http://www.nsf.gov/geo/geo-data-policies/ear/index.jsp>
* Conference call:
  + 1st piece is skills progression.
  + Direct data
  + Virtual reality
  + Unity Platform
    - Into the data creates a virtual environment
    - Can generate a 3D model
    - = Geospatial fly thru
* Skill Progression
  + Virtual Reality first
  + Then learn to develop their own
  + Do not what to be grade specific
  + Across 3-8 continuum is the way to go.
  + Meet them where their skills are adequate
  + Have evidence that this scaling works and they want to test
* **COLLABORATION**: Each of the 3 locations have different strength.
  + Only we have GIS: no VR or Direct Data Acquisition
  + John Moore has VR but not GIS or Direct Data Acquisition
  + Hal Walker JPL direct data acquisition no GIS or VR
  + Capacity will be built at collaborators shops from the others.
  + Replication, not duplication.
* Scalability or the use of the 3 can be used for other purposes:
  + Mapping 3D Building
  + Mountain Range
  + Streets and traffic flow
* Developmental Instructional Sequence: elementary
  + Three experiences:
    - Actual Scientific Data then, Ground Truth Data
    - GIS as visualization tool to see data
    - Informed from the data, VR then supplies visualization
  + Using [GLOBE](http://vis.globe.gov/GLOBE/) provides a specific spatial reference for further inquiry.
* **Parameters**:
  + Satellite data as a form of science instruction
  + Need workshop to determine color for spectral analysis
  + Is a black hole of tracking the phenomena behind other
* NOW: Writing in parallel
  + Mike=GIS
  + Other two in their realms
  + One voice is from John.
  + Thursday next week 1st draft with notes. Pre-Fastlane
* How will the PIs be listed in conjunction with the budget award process?
  + Co-PIs?
  + Avoiding subawards?
  + Program manager, 12 month with 59.1% on that uses a lot of the budget for IDCs versus program.
  + Majority of funds should go to teachers, travel and Director.
    - Conference travel to present material
* IDCs for use:
  + PI here uses our rate
  + John uses his
* Structure of the proposal layout? General Format? Sections, page limits